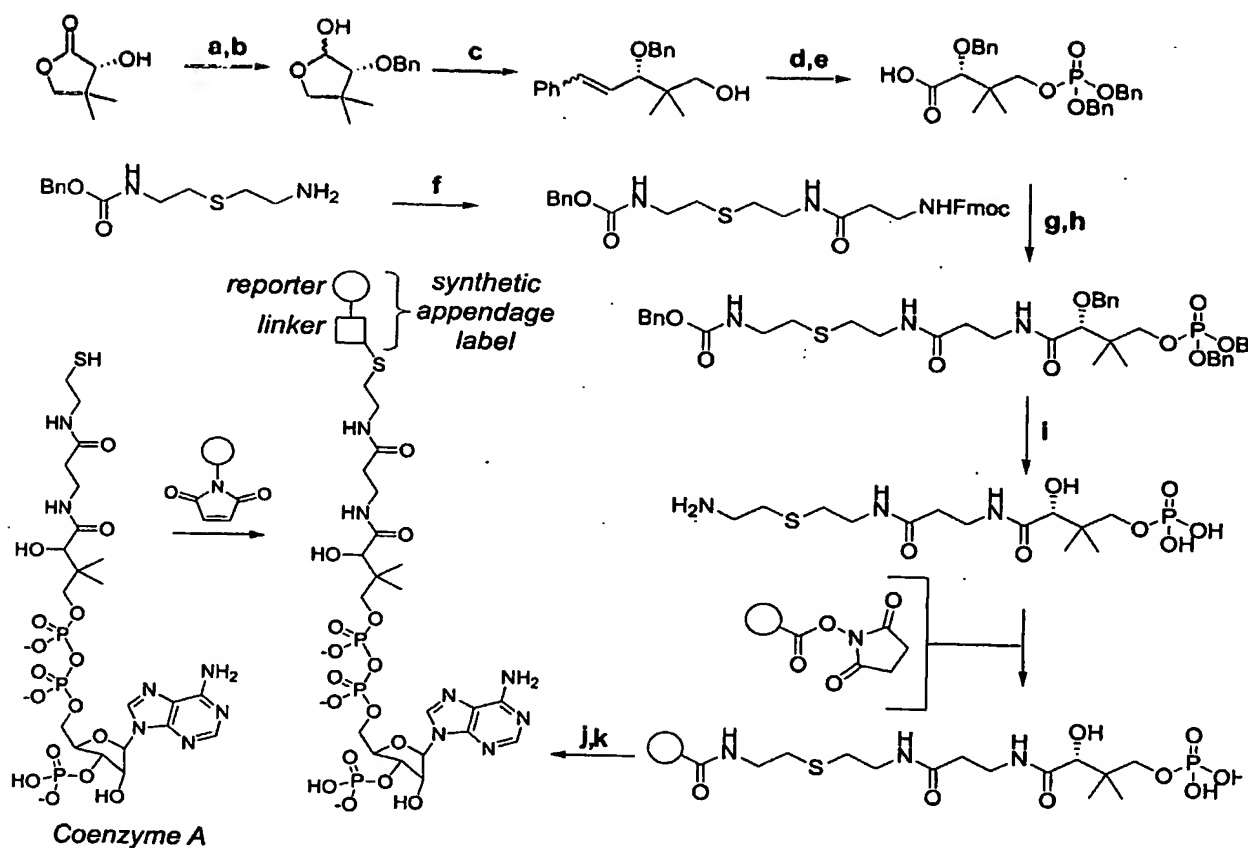


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Conditions: a) BnBr, Ag₂O, DMF, rt, 86%; b) DIBAL-H, THF, rt, 94%; c) Ph₃P⁺CH₂Ph Br⁻, KOtBu, THF, -78° C to rt, 2.5 h, 95%; d) i. (BnO)₂PN(i-Pr)₂, tetrazole, CH₂Cl₂, rt, 3 h, ii. O₃, CH₂Cl₂, CH₃OH, -78° C to rt, 10 min, 62%; e) NaClO₂, NaH₂PO₄, CH₂Cl₂, CH₃OH, H₂O, rt, 95%; f) Fmoc-β-alanine, EDC, HOBT, EtN(i-Pr)₂, THF, rt, 5h, 60%; g) piperidine, DMF; h) EDC, HOBT, EtN(i-Pr)₂, THF; i) Li, naphthalene, THF, -20° C, 1.5 h, 90%; j) CoAD, ATP; k) CoAE, ATP;

Figure 1

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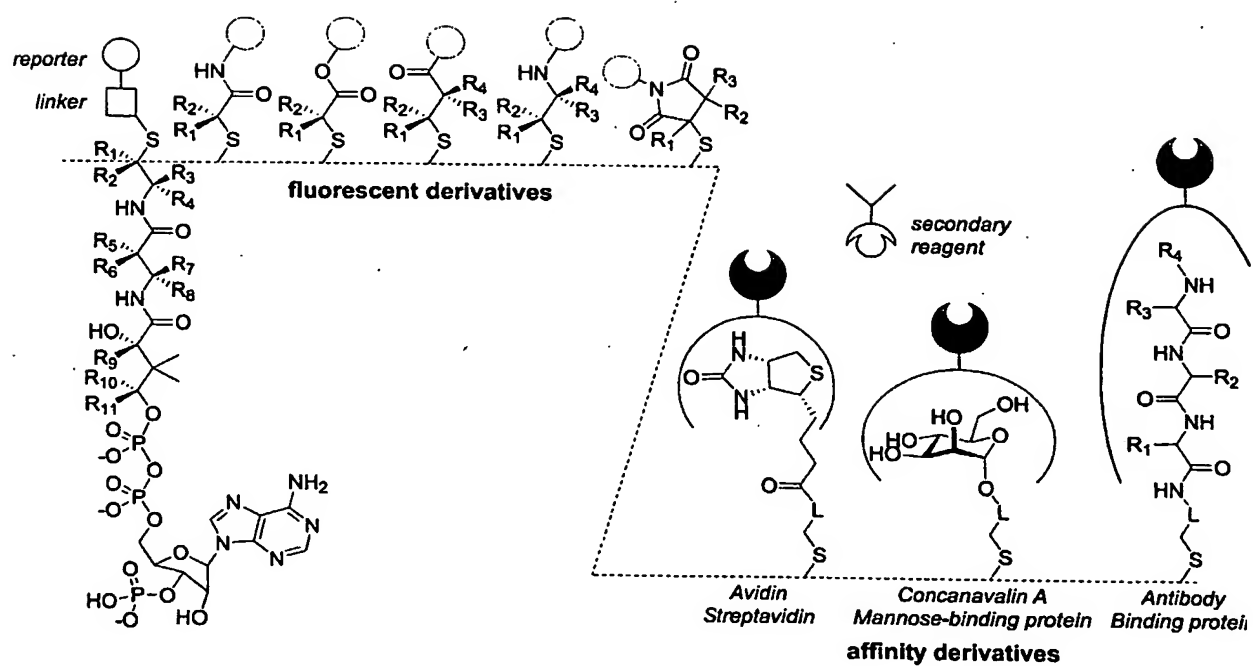


Figure 2

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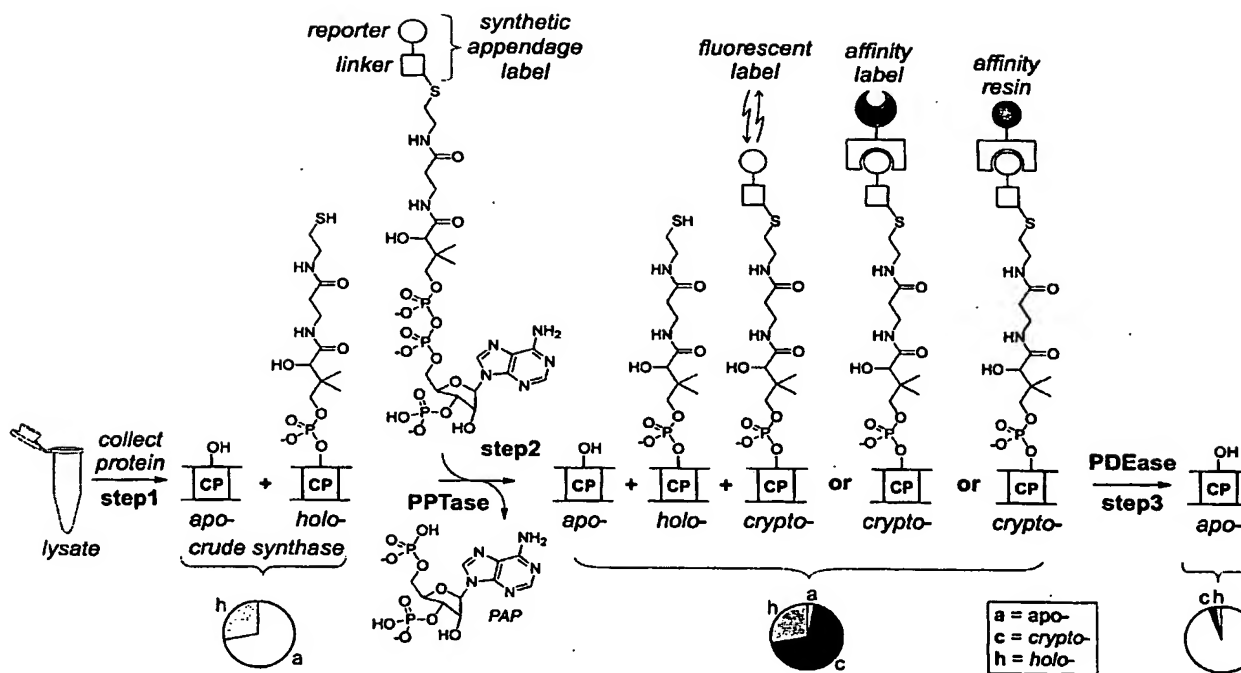


Figure 3

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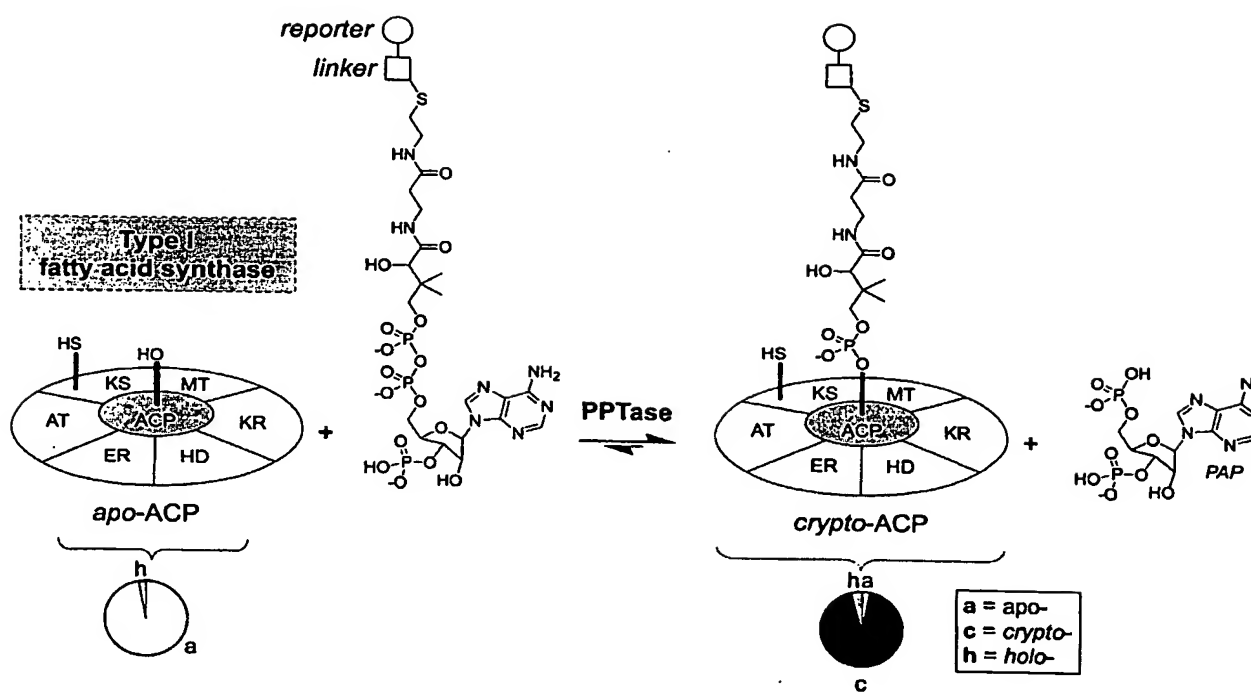


Figure 4

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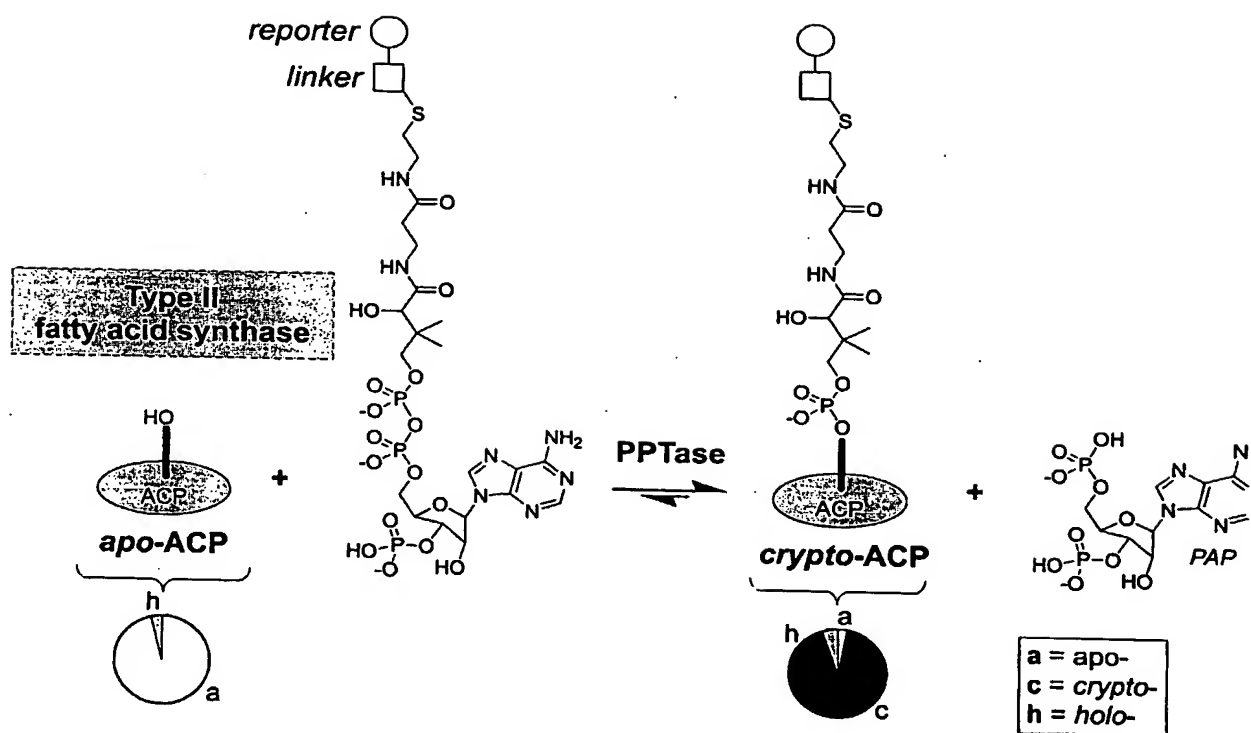


Figure 5

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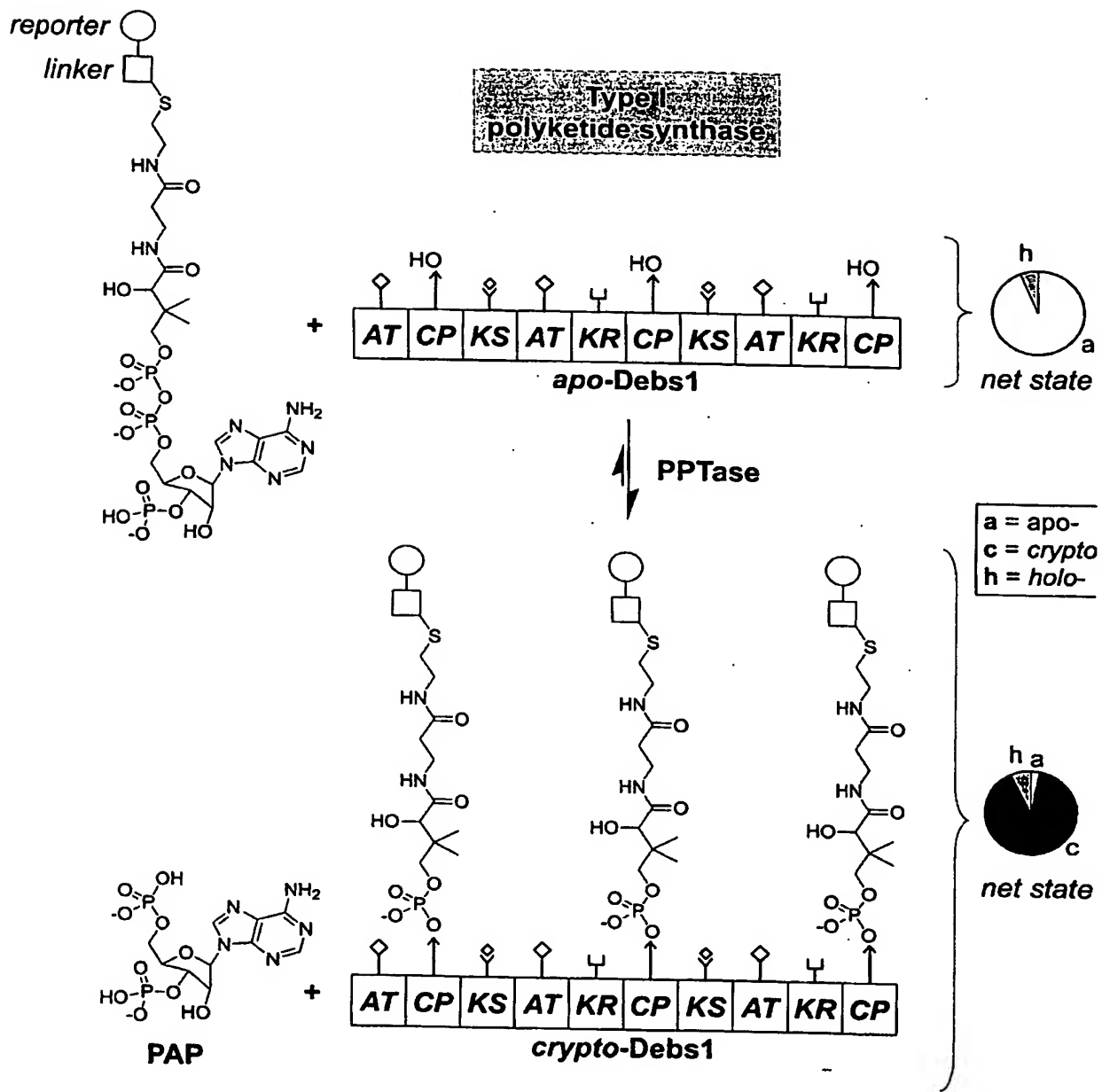


Figure 6

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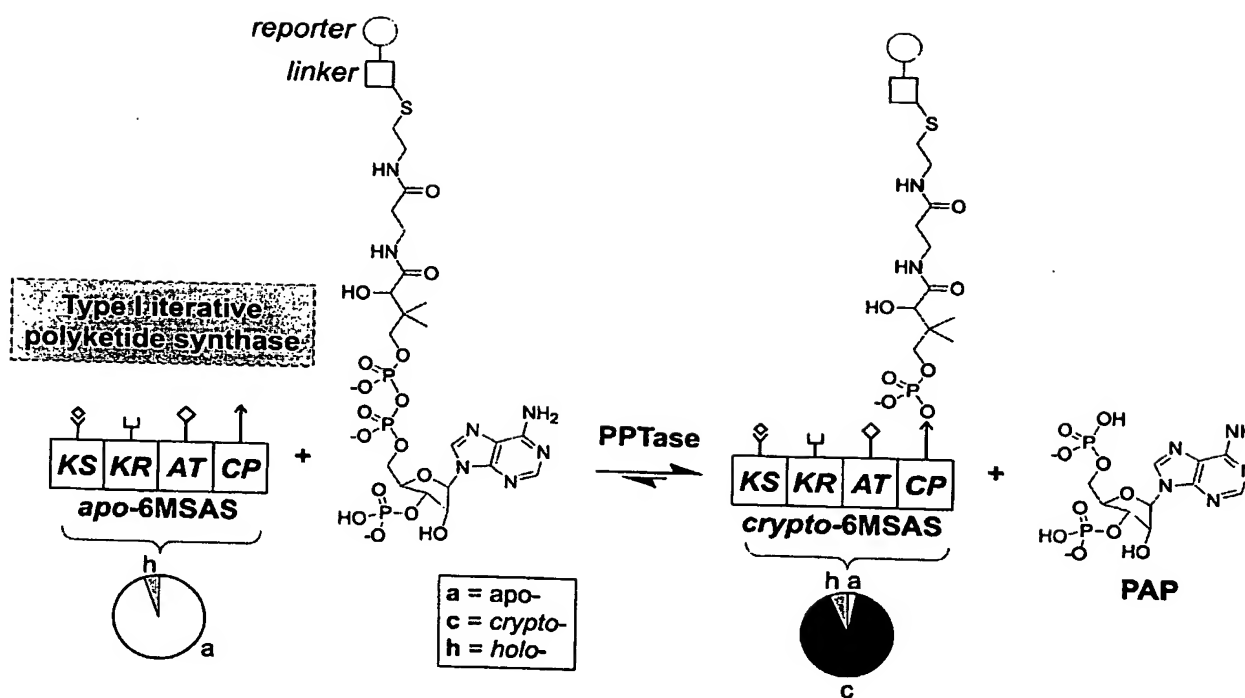


Figure 7

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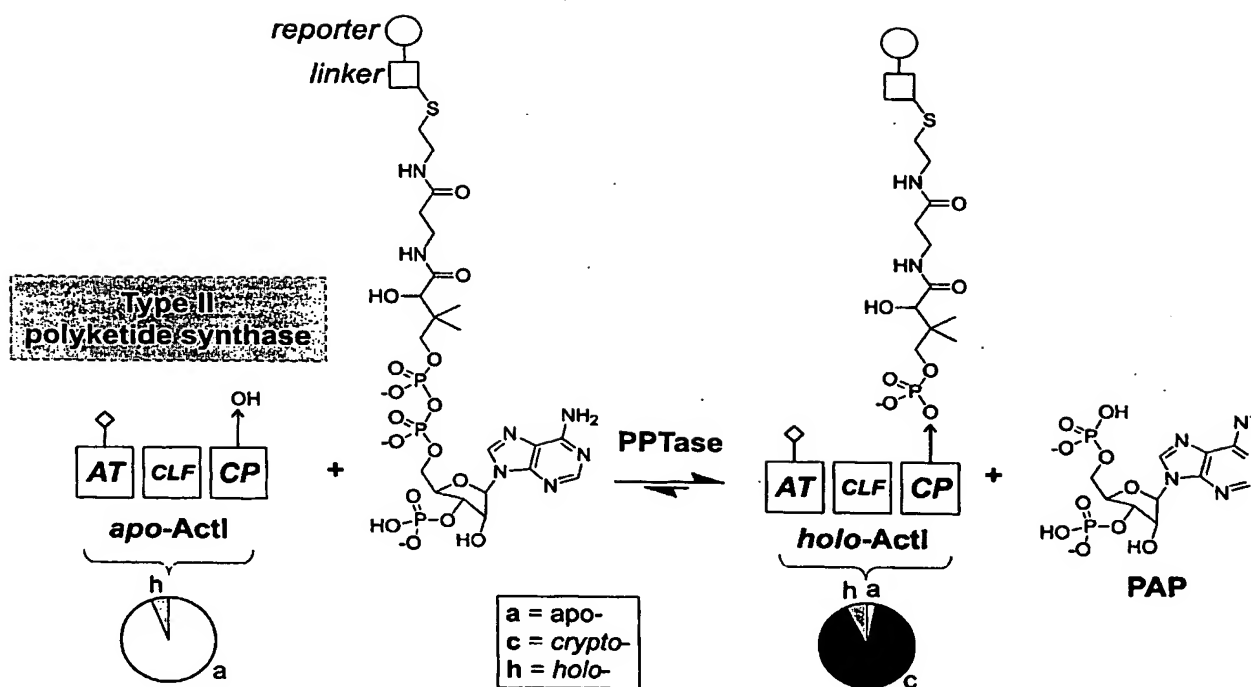


Figure 8

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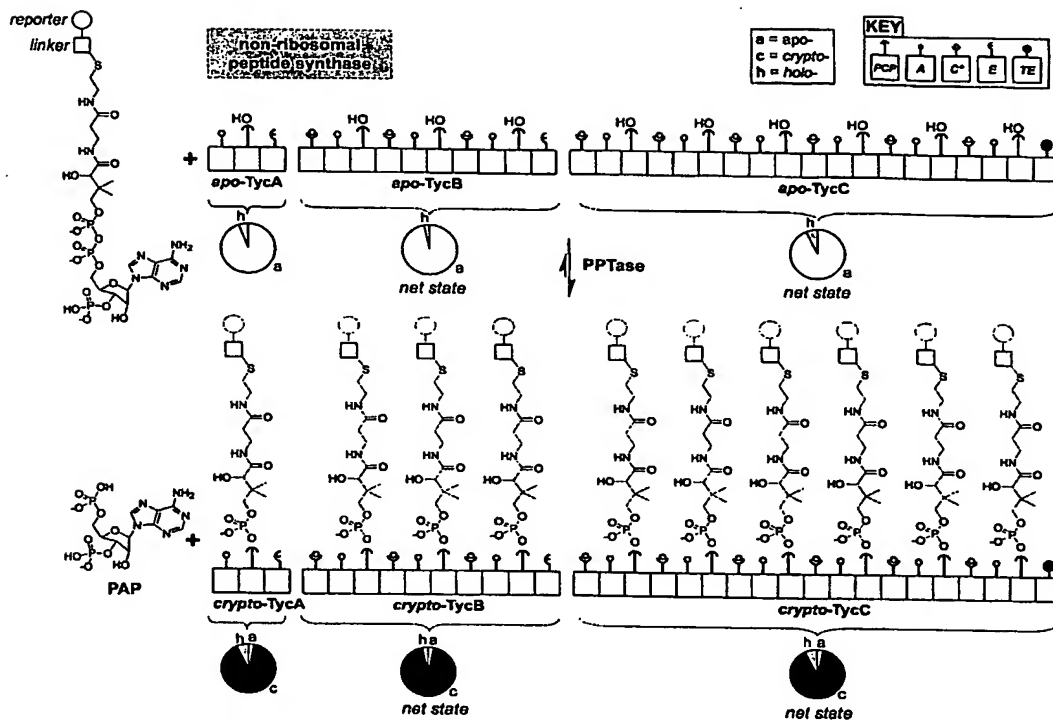


Figure 9

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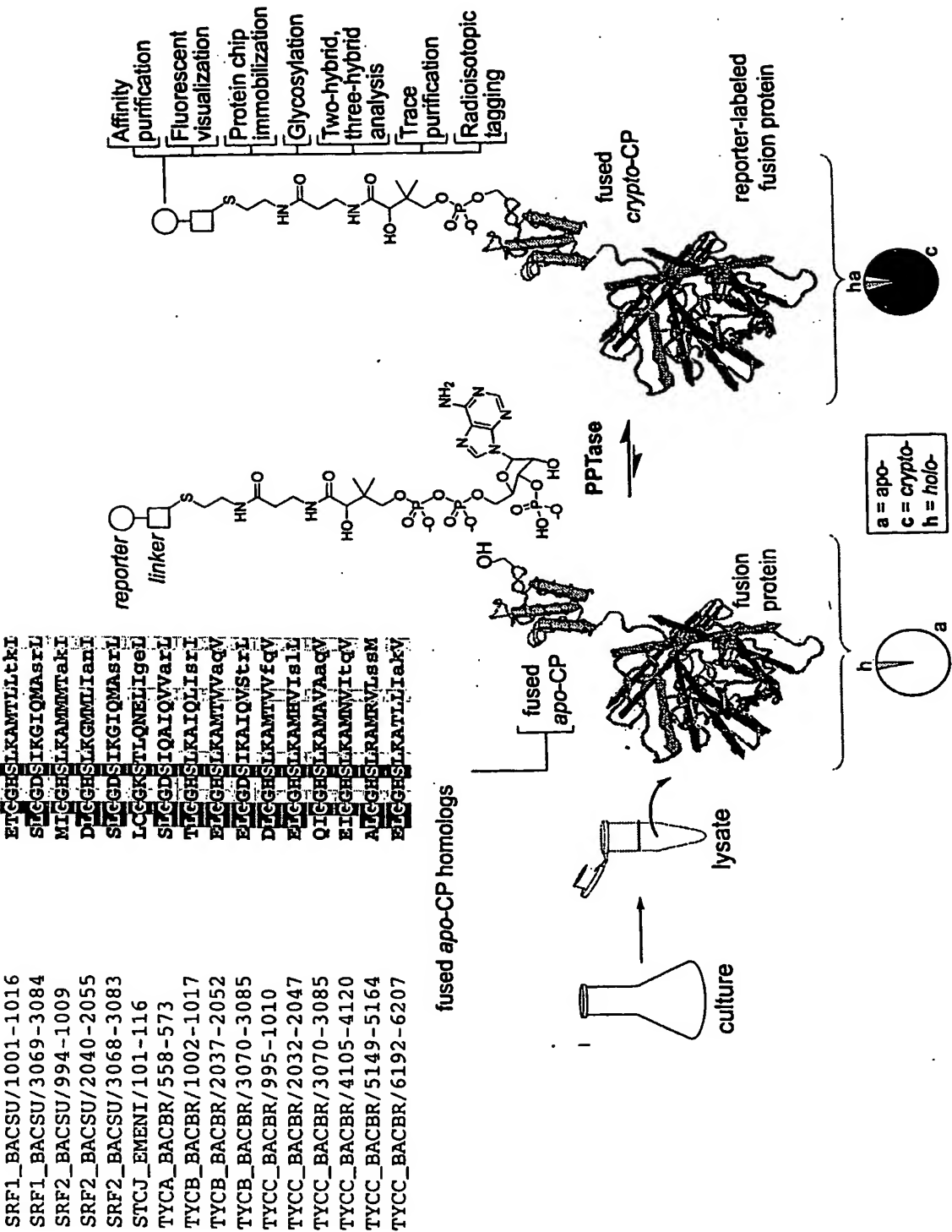
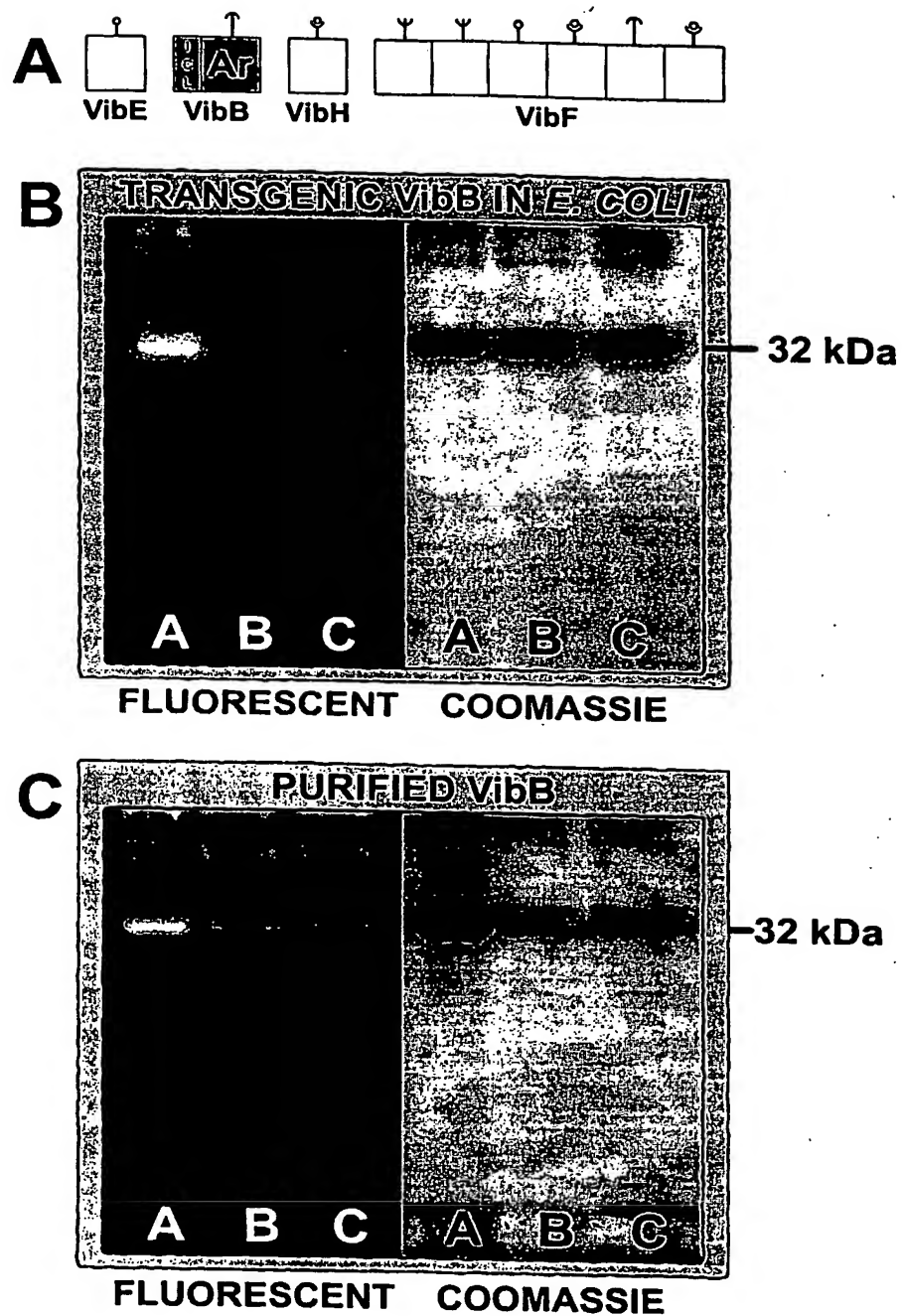


Figure 10

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*Figure 11*

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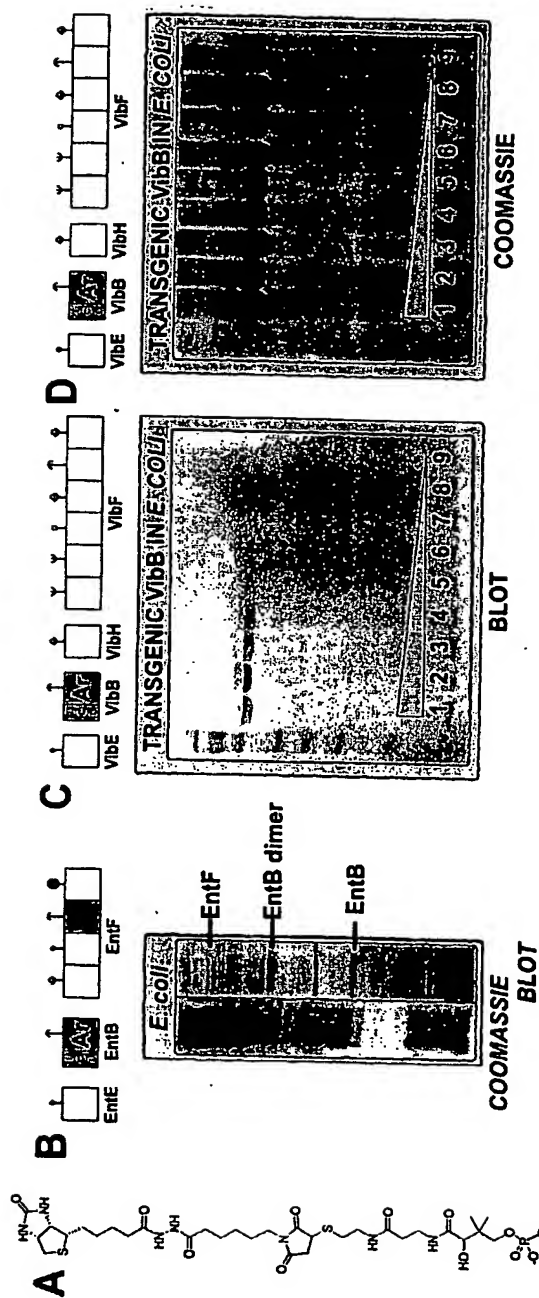


Figure 12

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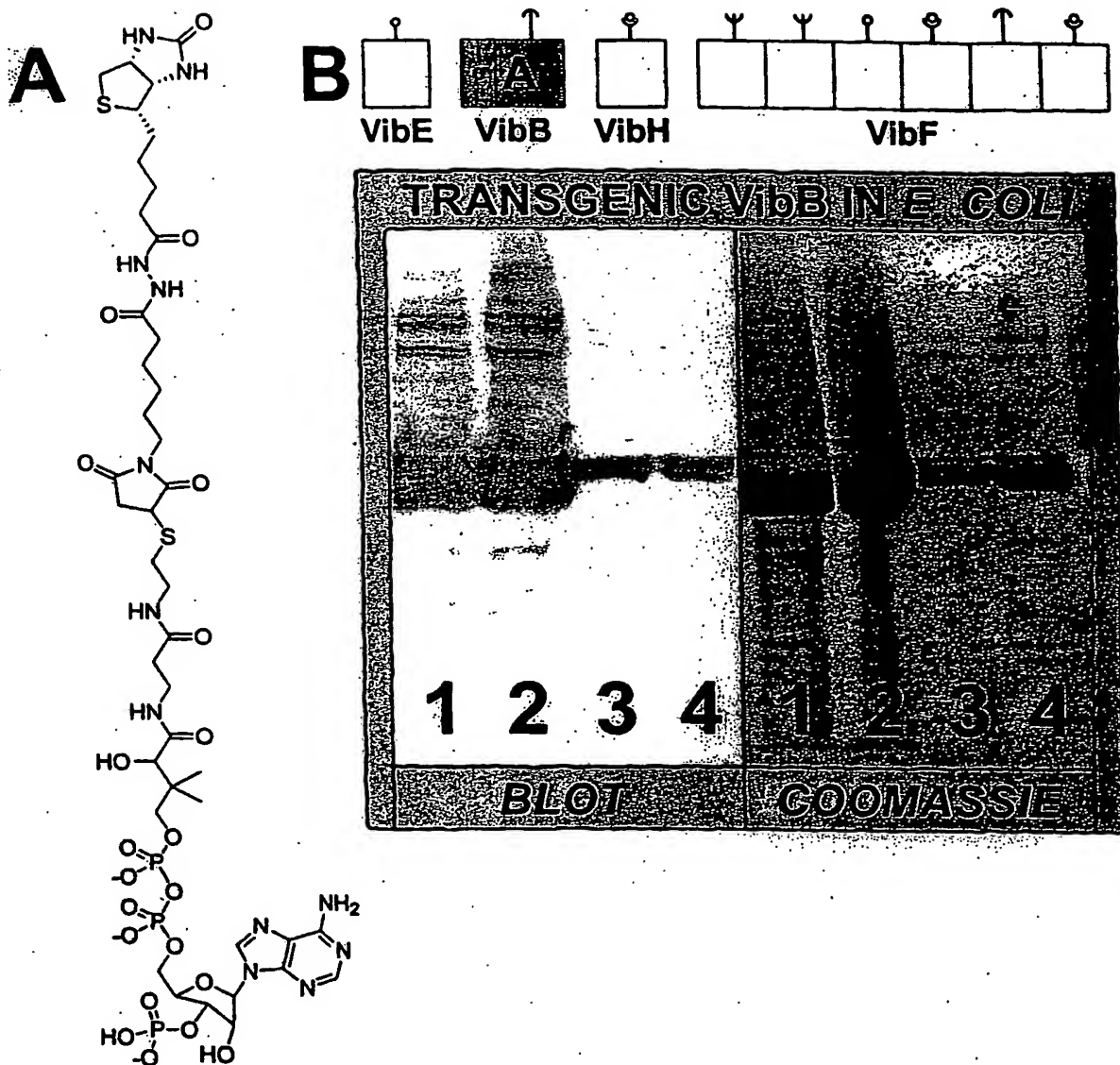


Figure 13

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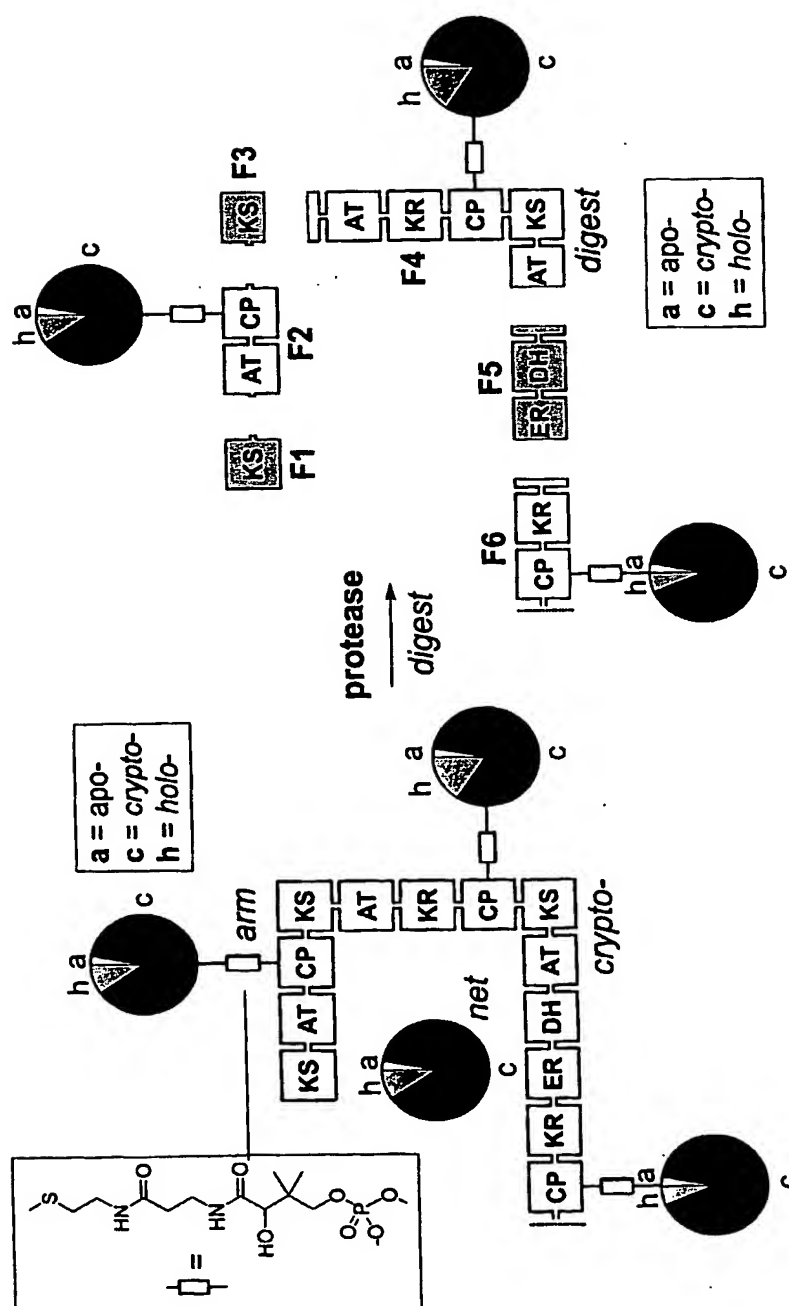


Figure 14

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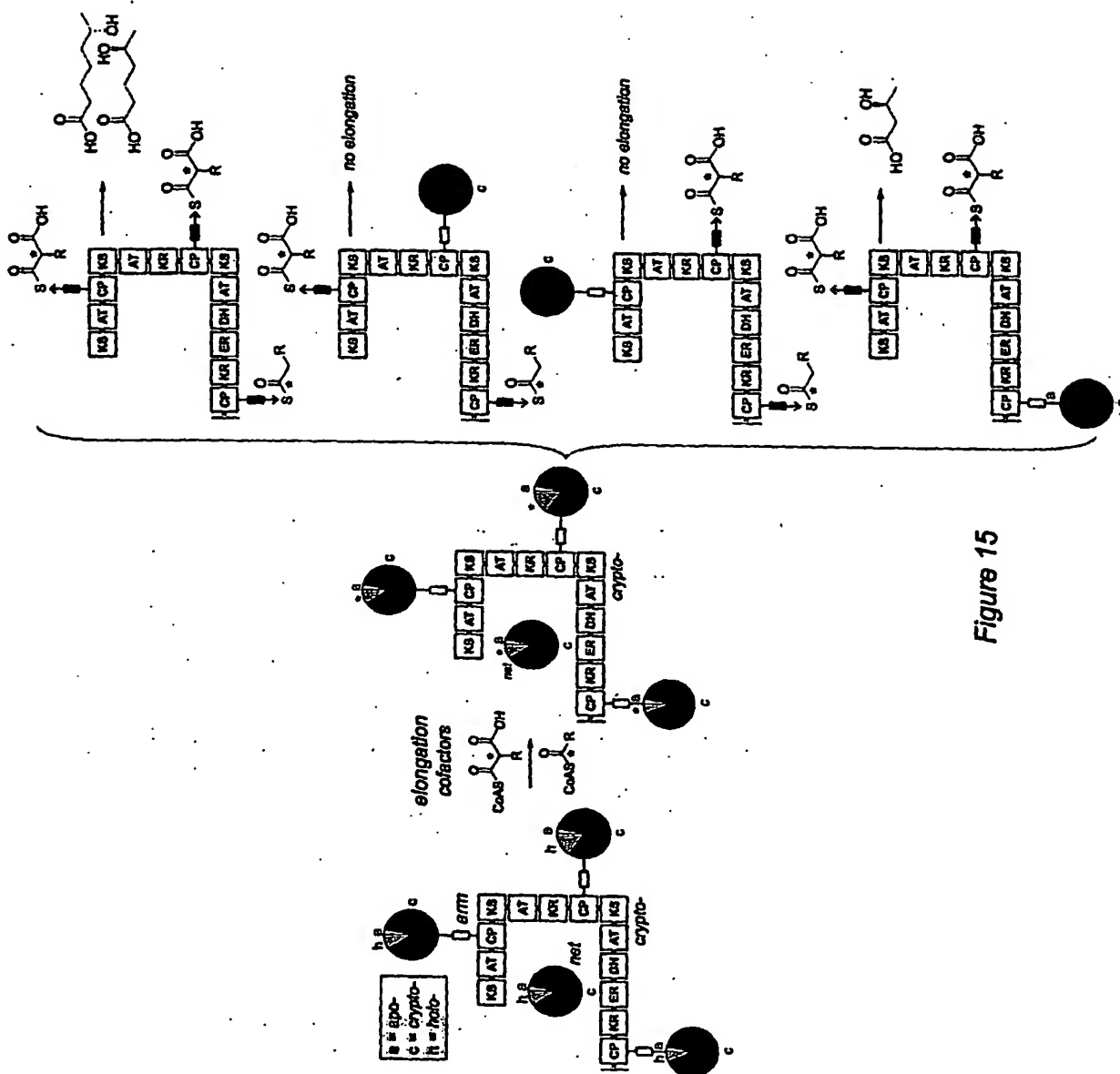


Figure 15

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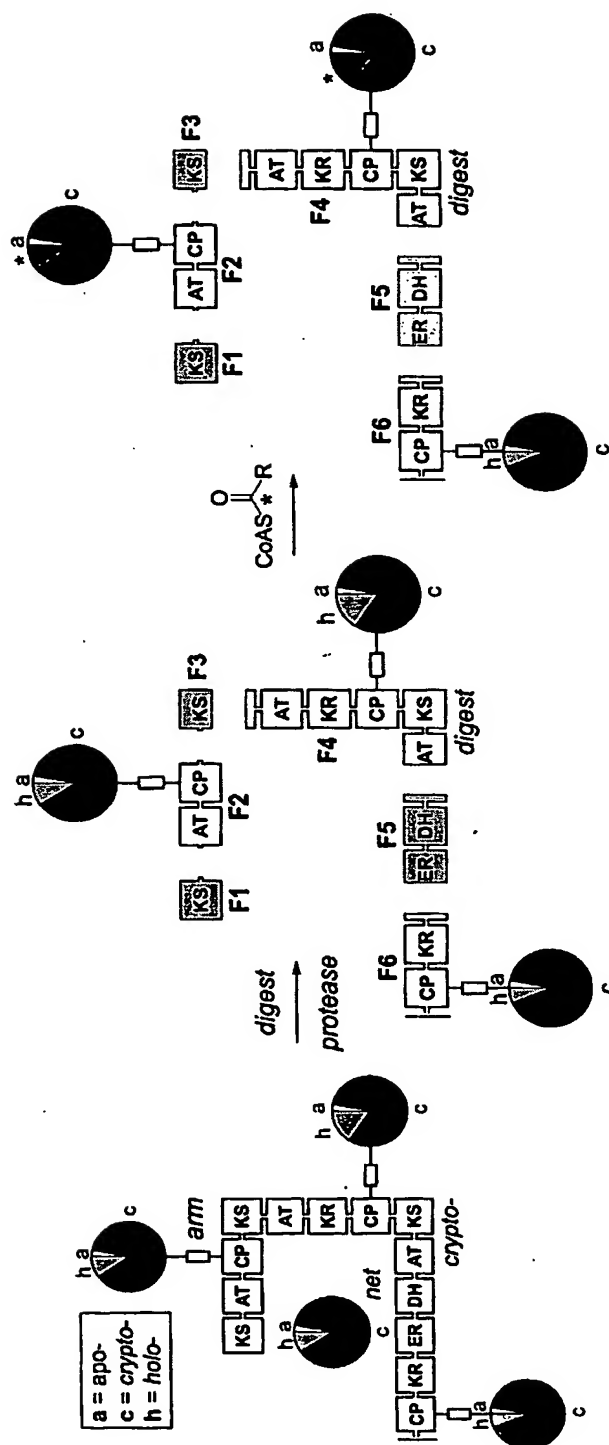


Figure 16

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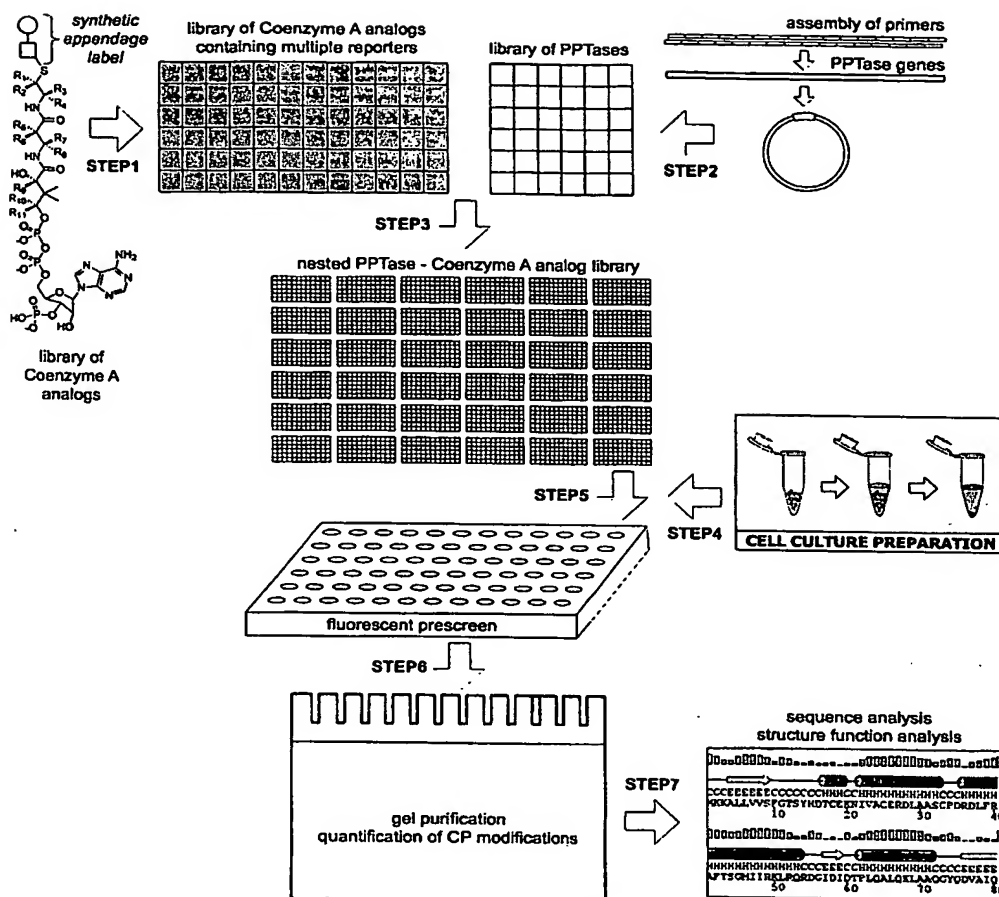


Figure 17

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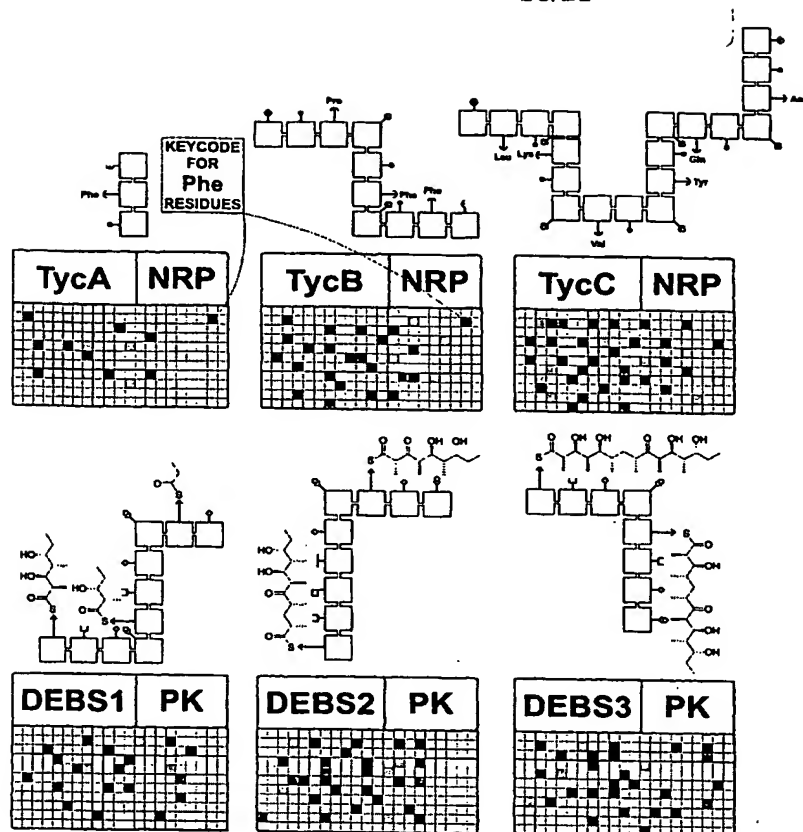


Figure 18

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Figure 19

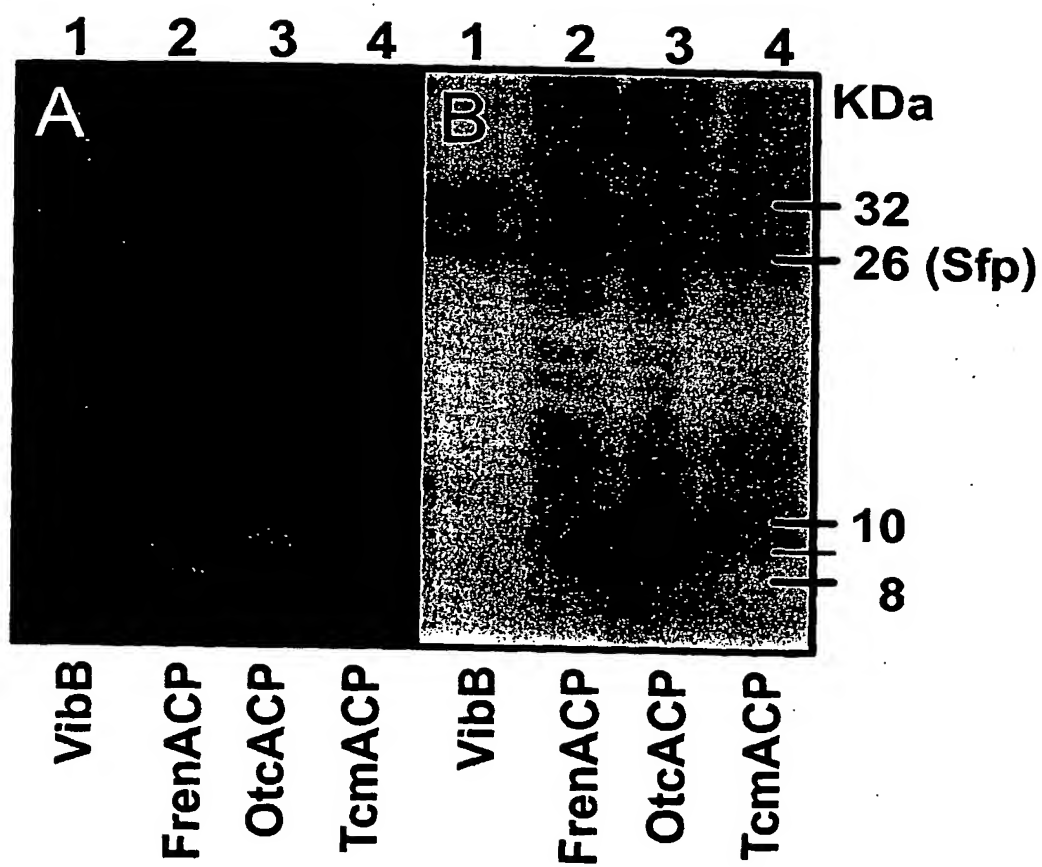
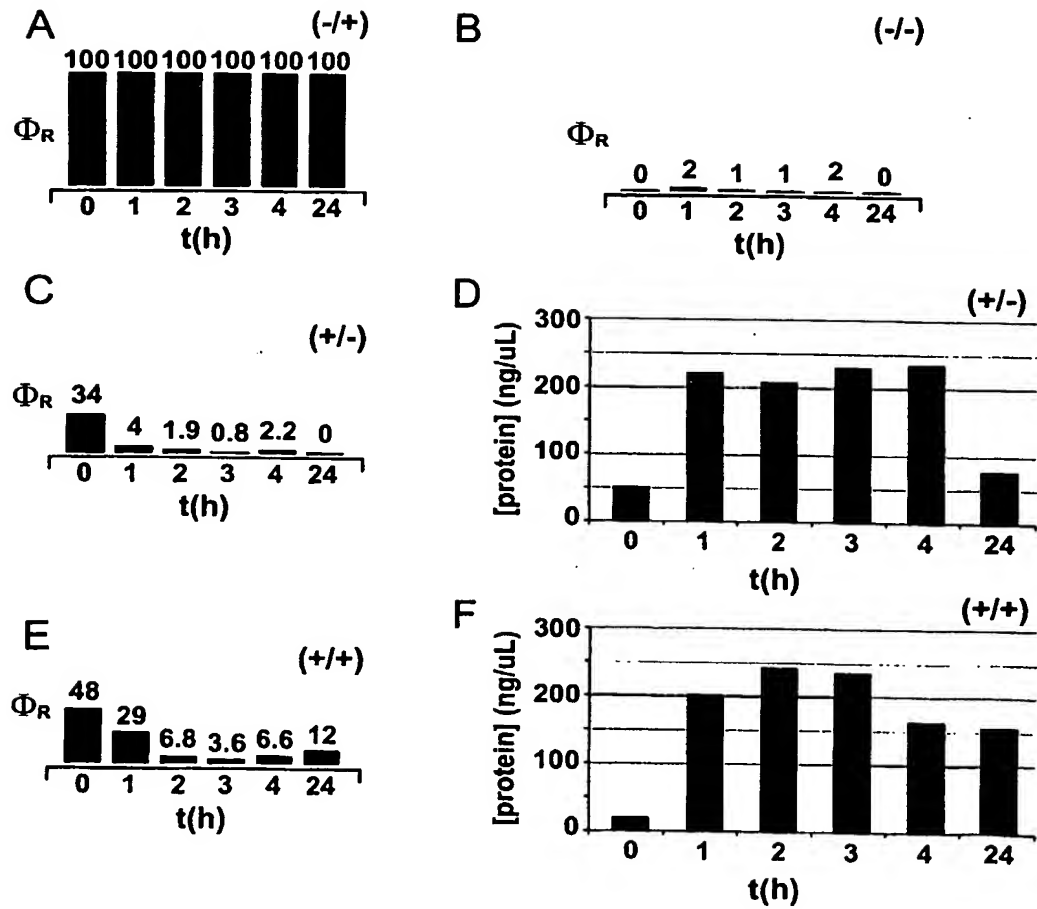
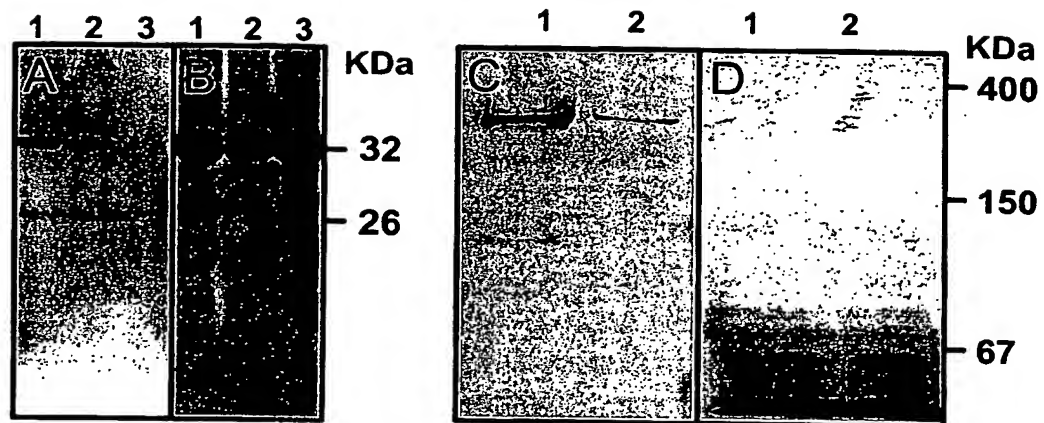


Figure 20



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Figure 21



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